

# [patch 1/6] Add MMC password protection (lock/unlock) support V4

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg11523.html>

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  - *Date:* Tue, 31 Jan 2006 16:16:37 -0400
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When a card is locked, only commands from the "basic" and "lock card" classes are accepted. To be able to use the other commands, the card must be unlocked first.

This patch prevents the block driver from trying to run privileged class commands on locked MMC cards, which will fail anyway.

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Index: linux-omap-2.6.git/drivers/mmc/mmc\_sysfs.c

```
=====
--- linux-omap-2.6.git.orig/drivers/mmc/mmc_sysfs.c 2006-01-31 15:17:45.000000000 -0400
+++ linux-omap-2.6.git/drivers/mmc/mmc_sysfs.c 2006-01-31 15:22:07.000000000 -0400
@@ -16,6 +16,7 @@
```

```
#include <linux/mmc/card.h>
#include <linux/mmc/host.h>
+#include <linux/mmc/protocol.h>
```

```
#include "mmc.h"
```

```
@@ -69,13 +70,22 @@ static void mmc_release_card(struct devi
}
```

```
/*
- * This currently matches any MMC driver to any MMC card - drivers
- * themselves make the decision whether to drive this card in their
- * probe method. However, we force "bad" cards to fail.
+ * This currently matches any MMC driver to any MMC card - drivers themselves
+ * make the decision whether to drive this card in their probe method.
+ * However, we force "bad" cards to fail.
+ *
+ * We also fail for all locked cards; drivers expect to be able to do block
+ * I/O still on probe(), which is not possible while the card is locked.
+ * Device probing must be triggered sometime later to make the card available
```

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```
+ * to the block driver.  
*/  
static int mmc_bus_match(struct device *dev, struct device_driver *drv)  
{  
    struct mmc_card *card = dev_to_mmc_card(dev);  
    + if (mmc_card_lockable(card) && mmc_card_locked(card)) {  
    + dev_dbg(&card->dev, "card is locked; binding is deferred\n");  
    + return 0;  
    + }  
    return !mmc_card_bad(card);  
}
```

Index: linux-omap-2.6.git/include/linux/mmc/card.h

```
=====  
--- linux-omap-2.6.git.orig/include/linux/mmc/card.h 2006-01-31 15:17:45.000000000 -0400  
+++ linux-omap-2.6.git/include/linux/mmc/card.h 2006-01-31 15:22:07.000000000 -0400  
@@ -61,6 +61,7 @@ struc
```